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From: Ham-Digital Mailing List and Newsgroup <ham-digital@ucsd.edu>
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Reply-To: Ham-Digital@UCSD.Edu
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To: Ham-Digital

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Today's Topics:

Internet <--> Packet gateway information
TAPR-2 to radio pin out

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Send subscription requests to: <Ham-Digital-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

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herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: Sun, 5 Sep 1993 00:52:26 GMT
From: tandem!vern!pat@uunet.uu.net
Subject: Internet <--> Packet gateway information
To: ham-digital@ucsd.edu

N6QMY/BBS Internet Gateway Operating Instructions
April 11, 1993

LOCAL USERS:

Local users are those that log into the bbs via the bbs's telephone modem
port (510-795-xxxx) or via one of the 4 tnc ports (145.09, 145.79, 223.62,
or 441.50). Each local user has a bbs account that is used to customize
how the bbs interacts with the user.

Local users can set their account up so that all incoming mail addressed
to their call will be forwarded via a gateway to internet and on to
other networks (mcimail, compuserve, etc). All the user needs to do is
enter his email address and turn the feature on.

EMAIL bob@hal.com

EMAIL ON

When the EMAIL feature is turned on the packet message will be deleted at the time of forwarding through the gateway. So care should be taken that the paths are correct prior to turning the feature on, for instance enable it, send a test message, and disable it. After a successful transfer re-enable the feature. To disable the auto forwarding feature simply type:

EMAIL OFF

Messages can be sent by packet users to the internet users via the gateway. This applies to users at N6QMY as well as users at other bbs's. Begin by sending a message to IPGATE@N6QMY with the first line of the message being the letters "To:" followed by the internet address of the recipient.

```
KB6UCZ de N6QMY >
  sp ipgate@n6qmy
Enter your subject:
  Meeting?
Enter your message body:
  To: bob@hal.com
  Are you planning to attend the club meeting on Thursday? Give me
  a call. 73, Theresa
  ^Z
```

NOTE: That the recipient cannot respond to the message unless they are a ham and registered with the gateway. He/she becomes registered by sending a message from his internet host to gateway-request@lbc.com.

REMOTE USERS:

Remote users are those that do not log into N6QMY directly but merely appear from the packet world to use it as home. If a packet user checks the "White Pages" for a remote user the entry comes back as @N6QMY. The packet user then address his message to YOURCALL@N6QMY and the bbs will do the translation and forwarding to internet.

It is not necessary for a person to know your actual internet address nor use the SP IPGATE method described above. From the packet network it appears that you are just another user at N6QMY.

WHITE PAGES:

The "White Pages" is a distributed database of all the bbs users. Most bbs users in the US are represented in the database as well as many from

other countries. When a user chooses a home bbs, that bbs generates an update that is sent to the regional servers and then distributed to all the other bbs's. An entry consists of; call, home bbs, first name, zip, city and state. When a user wishes to send another packet user a message he/she consults the white pages (WP) for the home bbs.

REGISTERING:

Before a user, both local and remote, can send a message from internet into the bbs system he/she must register with the gateway. This is done by sending a message from the host that he/she intends to use to gateway-request@lbc.com with the following information:

CALL:
FIRST NAME:
CITY & ST:
ZIP:

HOME BBS:

When a request is received the "From" field is copied directly into a file with the requesters call. Whenever the gateway receives a message bound for packet it scans this file comparing on the "From" field. When a match is found the gateway uses the associated call from then on. If there is no match the mailer bounces the message with a one-liner indicating the the user must register.

If you currently use another bbs as home this needs to be stated in the request. Otherwise you will be assigned N6QMY as your home. If you choose not to use N6QMY as your home you must make sure people know to send your message to YOURCALL@N6QMY to pass through the gate. Your WP entry will be wrong.

EXECUTING BBS COMMANDS REMOTELY:

Many of the commands available to local users is also available to remote users by sending a message to the bbs. Here is a subset of the commands currently available.

LIST	listing messages
LOOKUP	look up calls in the on-line callbook
WHO call	dump a users account information
READ	read messages and files
USERS n	display the last n users to connect to the bbs
INFO	display manual pages of various topics
CD	change directories in the file system

LS/DIR	display the contents of a directory
WP call	look a user up in the "White Pages"
HELP	get help on how to use a command

Not all commands available to local users can be accessed via the gate. All interactive commands are disabled as well as commands that modify the users account.

The command parser for the bbs is very powerful and the user can form very complex requests. For instance the following command is valid on the bbs:

```
LIST LAST 20 BULLETINS FROM N6QMY
LIST ALL BULLETINS ABOUT KENWOOD
```

The ABOUT keyword is used to search the subjects of messages for a given pattern, in this case KENWOOD. It can appear anywhere in the subject line.

This is an example of how complex all the commands can become. They can also be abbreviated down to the level understood by most other bbs programs. Any of the following will give the same results.

```
L< N6ZFJ
LIST FROM N6ZFJ
LIS < N6ZFJ
L FR N6ZFJ
```

In most cases a minimum number of unique characters is needed to distinguish a command.

You can get a list of commands and a translation chart from the W0RLI BBS command set to the N0ARY BBS command set by typing the following commands:

```
INFO COMMANDS
INFO W0RLI
```

Other commands that you may wish to execute are:

```
INFO MANUAL
HELP HELP
HELP LIST
```

Now that you know what some of the commands are this is how you go about executing them. You send a message to cmd@bbs.lbc.com with your commands entered one per line or separated by semicolons.

For example if you want to know if three of your buddies are in the white pages and if the bbs has any messages about the ICOM W2A.

Send to:

cmd@bbs.lbc.com

Subject: you can put anything here

wp n0ary n6zfy n6une

list all about w2a

.

The bbs will execute the commands and respond to you via return mail.

SENDING MAIL TO PACKET:

Once registered the user is free to begin using the gateway to send messages from his host through the gateway into the packet world. How much you have to specify of a users address depends on how much the bbs already knows about the user.

If the bbs knows the home bbs of the user and his home bbs is know to the N6QMY bbs, which many of them are, you simply need to supply the call of the user.

n6oim@bbs.lbc.com

If the N6QMY bbs doesn't know of the user but does know where his home bbs is, then you need to supply just the home bbs call in addition to the users.

n6oim%n6iiu@bbs.lbc.com

Notice that the call and home bbs are separated by a percent sign '%' rather than the '@' which is used in the packet domain. This is because the '@' has a meaning in the internet address.

If the N6QMY bbs has no knowledge of either the user or his home bbs, then you probably have the wrong home bbs or it is a new bbs. In which case you will have to supply the full address so the bbs will know how to route the message.

n6oim%n6iiu.#nocal.ca.usa.na@bbs.lbc.com

This level of addressing is hardly ever needed and normally means that the home bbs is in error.

Bulletins can be sent in a similar fashion. The address is made up

of a keyword, which can be any six character word and a distribution. Distributions are local to an area. For instance SBAY is valid in northern CA, it probably has no meaning at all in Topeka, KS.

Valid distributions are:

ALLUS	please avoid this one
ALLUSW	all western US
ALLCA	all California, any 2 letter state should work

So if you trying to find a cw filter for a Kenwood TS440.

Send to:

want%allca@bbs.lbc.com

Subject: Kenwood TS440, CW filter

If you have one of these you are willing to part with please give me a call or leave message, thanks.

73, KB6UCZ@N6QMY.#NOCAL.CA.USA.NA

.

Be descriptive, brief, and always include your full return address in the message. Also please try to limit your distributions to small regions. Using the ALLUS distribution really slows down the flow of messages.

INFO ON THE N6QMY BBS:

The bbs came into being in April of 1993 and was the second one anywhere to run the N0ARY BBS code (the first being N0ARY himself). The bbs has 4 rf ports, 1 phone port, the internet port, and is working on a voice synthesizer port. The latter would allow users to check for messages via DTMF from their handhelds.

The bbs itself runs on a Sun workstation under Unix. The code was written by Bob Arasmith (N0ARY) to focus on the user. Great care was taken to make the bbs very forgiving to the novice user but very flexible and powerful for the old-timer. The bbs can be configured to interact with each user differently. Some examples are:

- * List messages in either descending or ascending order.
- * Specify a list of keywords that the user wishes not to see displayed when a list is performed, similar to a kill file.
- * .signature and .vacation files.
- * Specify how many lines the users terminal is capable of displaying

before scrolling, the bbs will feed info this many lines and pause allowing the user to catch up and continue or abort the operation. Similar to more.

- * Users can put commonly executed commands in keystroke macros that are accessible via a single keystroke.

A manual is currently available describing the commands and their permutations. This manual will be available later this year as a postscript file. Run the command INFO MANUAL to learn how to get one via the post office. It is not available in an ascii format.

If you have any questions about the internet gateway or the bbs in general please drop me a message.

73, -pat
 n6qmy@n6qmy.#nocal.ca.usa.na
 pat@lbc.com

Date: Sat, 4 Sep 1993 23:03:38 GMT
From: netcomsv!netcom.com!quoi@decwrl.dec.com
Subject: TAPR-2 to radio pin out
To: ham-digital@ucsd.edu

I have put together a MacPacket modem and would like my radio out to be compatible with TAPR-2 wiring. Does anyone know what the radio pin out standard for TAPR-2 is? I know that it is a din-5, but I have found no other information...

please send replies by e-mail. thanks.

End of Ham-Digital Digest V93 #30
